

“COES”
TRADE MARK
REG. U.S. PAT. OFF.

WRENCHES

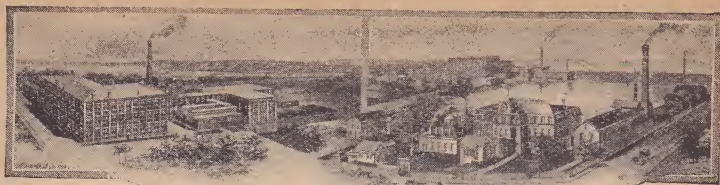
1188-187 397E
"COES"
TRADE MARK
REG. U.S. PAT. OFF.

GENUINE
**SCREW
WRENCHES**

MADE ONLY BY
Coes Wrench Company
WORCESTER, MASS.
U. S. A.

Cable Address **"COES"**

Leibers **CODES** **A. B. C.** **Western Union**



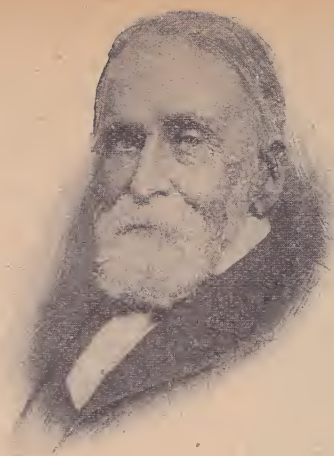
OUR FACTORIES

Our factories, located in Worcester, have a floor space of 85,000 sq. ft. We employ 300 men. We use a total of 450 H. P., the greater part electrical.

This is the largest factory in the world devoted to the exclusive manufacture of Screw Wrenches.

ESTABLISHED 1843

L. & A. G. Coes	1843-1869.
L. Coes & Co.	1869-1885.
Coes Wrench Co.	1885-1902.
Coes Wrench Co. Inc.	1902-



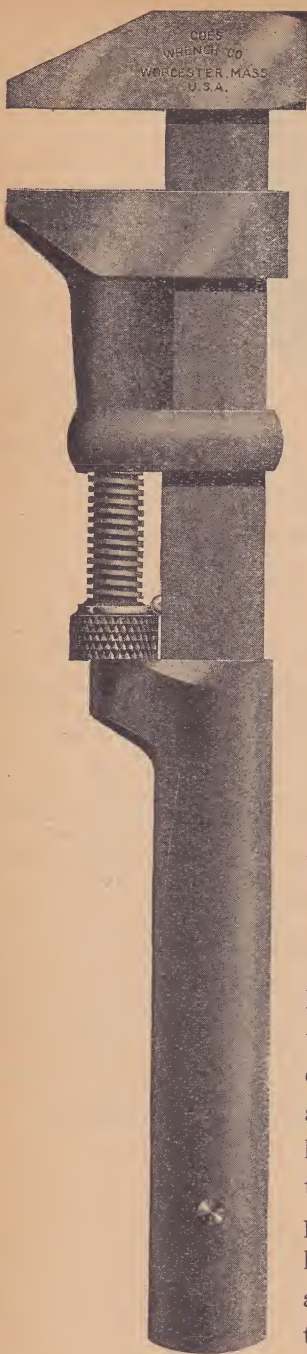
LORING COES

The original patentee of the Screw Wrench.

Born 1812.

Died 1906.

IN introducing the goods here shown to our clients we would state that they are made under our direct supervision by the improved methods recently patented by Mr. Loring Coes, (the original inventor of the tool in 1843). It has been our intention to give the item of *Quality* careful consideration, leaving the matter of selling price entirely out of the manufacture of our goods. We know these goods to be the highest in quality and we also know from actual test that they are enough higher in quality to more than offset any differences in cost. A little consideration should show the wise purchaser that quality and commensurate price are practically an assurance of satisfaction.



COES "GENUINE"

Screw Wrench

"Steel



Handle"

Model

This is the strongest wrench made. It is the finest tool for damp places, railroads, factory work, or where exposed to heat, water or insects.

BAR. Steel, fully hardened and *cold swaged*. The stiffest bar made in any line.

JAW. Extra heavy, *semi-steel* and hardened.

SCREW. Steel, hardened and in the ball bearing size, with polished and hardened ball race.

BALL. First quality standard bearing ball. Fully hardened.

HANDLE. Semi-steel casting. (Design and method patented.) Internally supported and retained by cross riveting and by extension of bar through handle and riveting same. This wrench has tested 35 per cent. stronger than *any* wrench made by competitors, and, owing to being heavier than our K. H. model, about 15 per cent. stronger than that regular model.

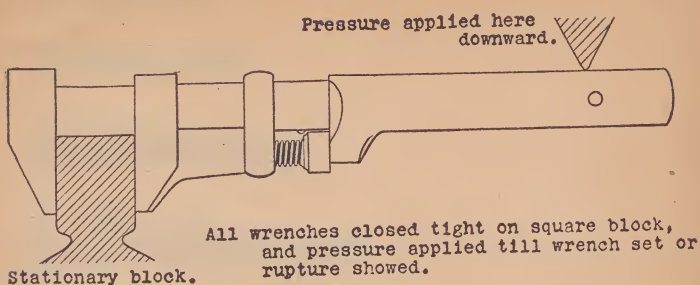
Made for use in extra difficult service, and in exposed places, where heat or damp would injure a wood handle.

Purposely made heavier for this duty and for special adaptation to railroad work.

Warranted free from mechanical defects and both wrench and trade name registered and each wrench stamped with maker's name, etc.

All goods are subject to eleven inspections before assembling and five after assembling.

TESTS OF THE 12" WRENCHES



Comparative Testing Strains Required to Permanently Set

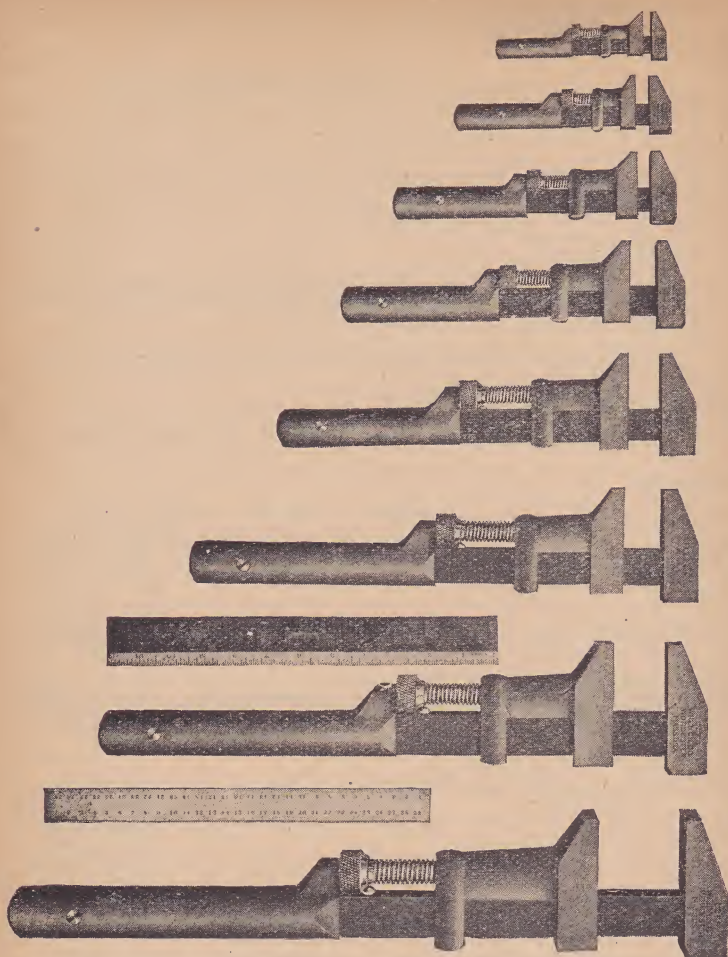
Wrenches, Loads and Results Noted.

From Test Blanks of the Harvard University Testing

Laboratory.

	Load	Result	Part Broken.
12" K. H. Imitation	460 lbs.	Fell to pieces	Bar pulled from Handle.
12" K. H. Imitation,	1070 lbs.	Broken	Jaw broken, Bar bent.
"Railroad Special" 12" Steel Handle Imitation	1075 "	Pulled apart	Handle shell forced off of bar.
12" K. H. Imitation,	1190 "	Broken	Jaw Broken, thread in Jaw stripped Jaw broken Head bent back.
Goes Mechanics Model, 12" Black	1365 "	Crippled,	Bar bent.
Goes Genuine K.H. 12" Black,	1410 "	Crippled	Jaw bent. Bar set. Nothing broken.
Goes Steel Handle 12",	1790 "	Crippled,	Bar set so screw and jaw would not move. Nothing broken.
Goes Hammer Handle 12",	1770 "	Crippled	Same condition as Steel Handle Nothing broken.

This test shows the strength of our wrench compared with others.



This cut shows a full set (8) of Steel Handle Wrenches. It also shows the ball bearing screw in the 12-15-18 and 21 inch sizes and gives a comparison with a foot rule and a metric scale, 30 c. m. long. On the next page can be seen the packages and the cases used for packing shipments.

All our goods are sold packed carefully and protected by lined cases.

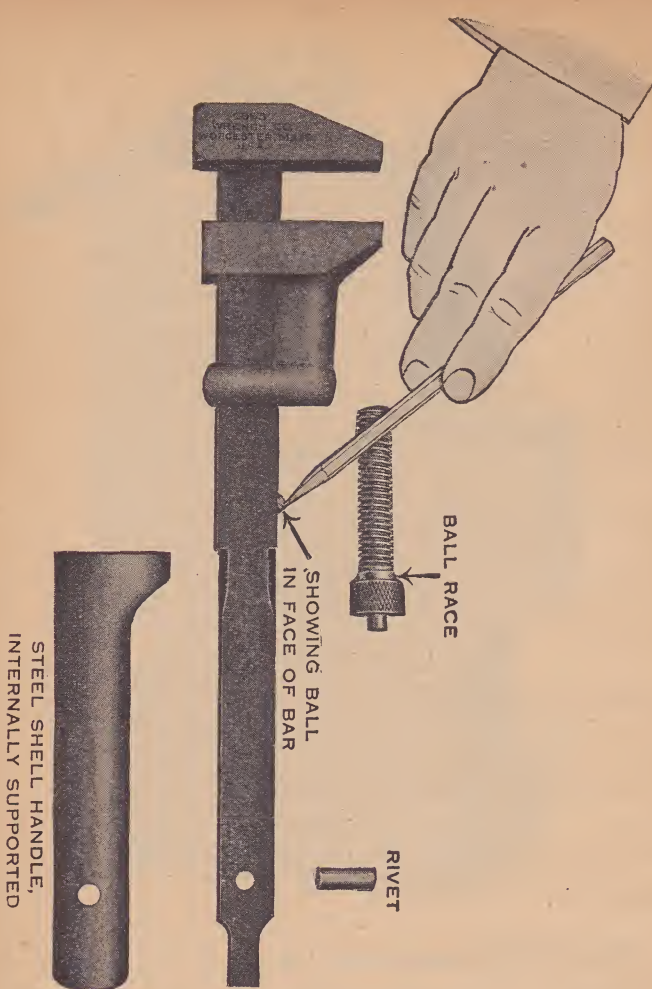
Each wrench is inspected 16 times during manufacture and is warranted free from mechanical defects.




This cut shows some cases, strapped and marked ready for shipment. Also the package composed of 4 or 6 wrenches (according to size).

Each wrench is oiled to prevent rust, and done up individually in paper; the package is tied and labeled with size and model.

The "Coes" warrant means the highest quality possible and has 63 years of experience behind it.



This cut shows the parts of the Steel  Handle Wrench. It is made up of 5 solid parts. The jaw and bar are hardened to resist wear, as is the ball race and ball, which is shown in place in the bar. The wrench is assembled by pressure and the handle is retained by a cross rivet and by riveting the end of the bar where it comes through the handle shell.



SECTION OF HANDLE SHOWING INTERNAL SUPPORT OF STEEL SHELL

It is not amiss to call the attention of the trade to the fact that jaw and screw are *each* "one piece parts." That is the jaw is not made of a casting, plus two rivets or plus two rivets and a bar introduced to cover mechanical faults in design. The screw is one piece and not a screw plus a moving dowel and a hidden spring. This is a feature the trade has overlooked, but it means much increased life and better service.

In addition to the regular quantities packed in our cases as shown on page 15 we pack a

SPECIAL ASSORTMENT CASE



for the convenience of customers desiring an assortment in one package.

THE CONTENTS OF ASSORTMENT CASE IS

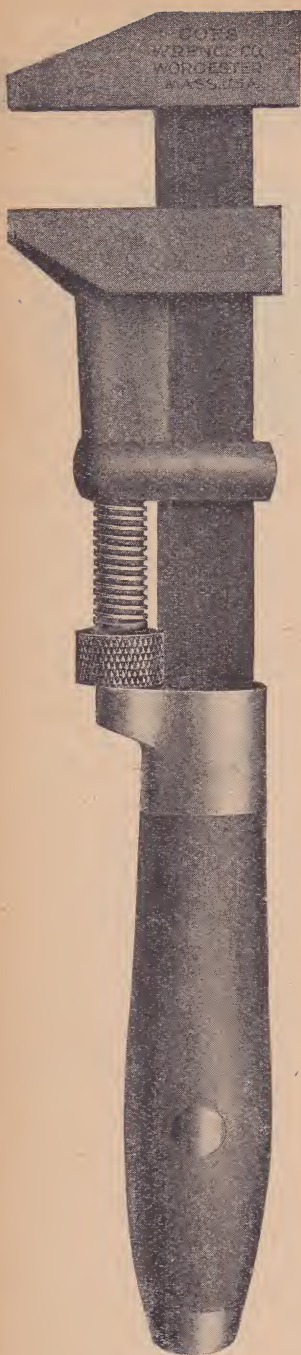
1 doz. 6 in. 1 doz. 10 in. $\frac{2}{3}$ doz. 15 in.

1 doz. 8 in. 1 doz. 12 in. $\frac{1}{3}$ doz. 18 in. $\frac{1}{3}$ doz. 21 in.

If these are Steel Handle, the gross is 250, Net 231.

If these are Knife Handle, the gross is 220, Net 201.

There is a special price on this case when used for introduction purposes, but this is allowed on the first case only.



TRADE MARK
"COES" "GENUINE"
 REG. U.S. PAT. OFF.

TRADE MARK
"Knife-Handle"
 REG. U. S. PAT. OFF. NO. 46548

An improvement of nearly every feature of the first and original type of "Knife-Handle" wrench.

No feature in this wrench is used in the imitations and each exclusive feature of handle and construction is the result of experiment and test.

HANDLE. Cast semi-steel frame, hard-wood sides, secured at both ends by insertion under metal and riveted up under pressure. The soundest, strongest wood handle made.

SCREW. Steel, hardened and in one piece. Imitations are in two and sometimes three parts.

JAW. Semi-steel casting. Hardened.

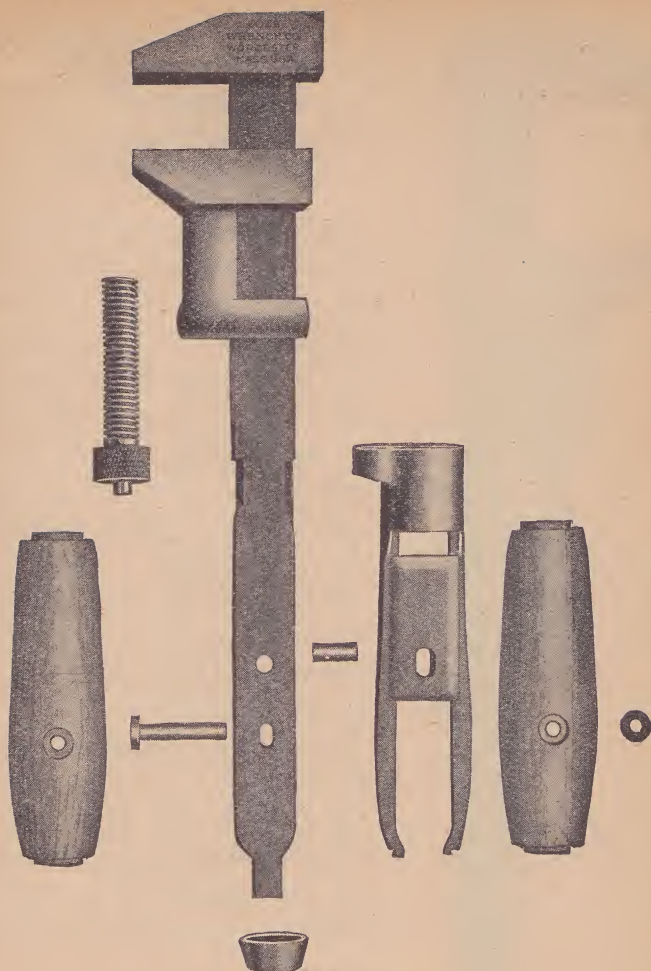
BAR. Steel, specially imported material and fully hardened. All parts interchangeable.

10 to 15 per cent. stronger than imitation or substitute made by others.

Warranted free from mechanical defects and both wrench and trade name registered and each wrench stamped with maker's name, etc.

Beware of cheap substitutes.

All goods are subject to eleven inspections before assembling and five after assembling.

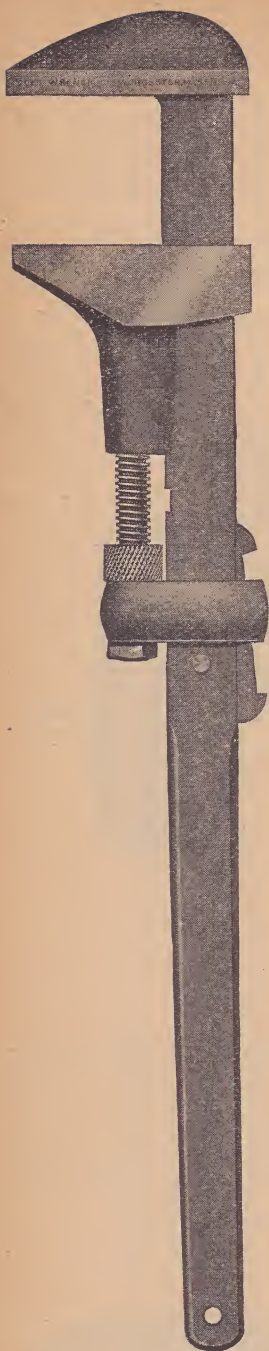


This cut shows every part of the Knife-Handle wrench. It is assembled under pressure, riveted and hardened in all wearing parts. The wood sides of the handle are held by and inserted beneath iron at *both* ends and by cross rivet. The construction is shown by sectional cut below.



This is the strongest wood handle made of this shape.

Please note last paragraph on page 8 as applied to screw and jaw used on all our goods.



TRADE MARK
COES "GENUINE"
 REG. U.S. PAT. OFF.

TRADE-MARK
KEY
MODEL
 REG. U.S. PAT. OFF.

This wrench was designed to fill the gap between the 21-inch and the heavy *spanner wrench* for large work. It will not *batter* and *jam* a large *nut* as will a *chain wrench*. It will not slip or make trouble and will take anything within its opening capacity, no matter whether square or hexagon.

Made of heavy steel *forgings*, fully hardened, and each wrench tested before shipping, to assure freedom from flaws.

In the *Key wrench* we have the finest *engine room tool* ever made. It is self contained.

The key cannot come off, and the two positions for *jaw straps* assure its going into corners without trouble.

The wrench is hardened by a special process, used by Mr. Coes for many years and this process, like all the other things about this line, is the result of long and earnest experiment.

Warranted free from mechanical defects. Patented and registered. Each wrench stamped with maker's name, etc.

Made in 4 sizes.

28" opens $5\frac{1}{8}$ ", weighs 19 lbs.

36" opens $6\frac{1}{4}$ ", weighs 28 lbs.

48" opens $9\frac{1}{2}$ ", weighs 62 lbs.

72" opens $12\frac{1}{4}$ ", weighs 165 lbs.

[See opposite page.]

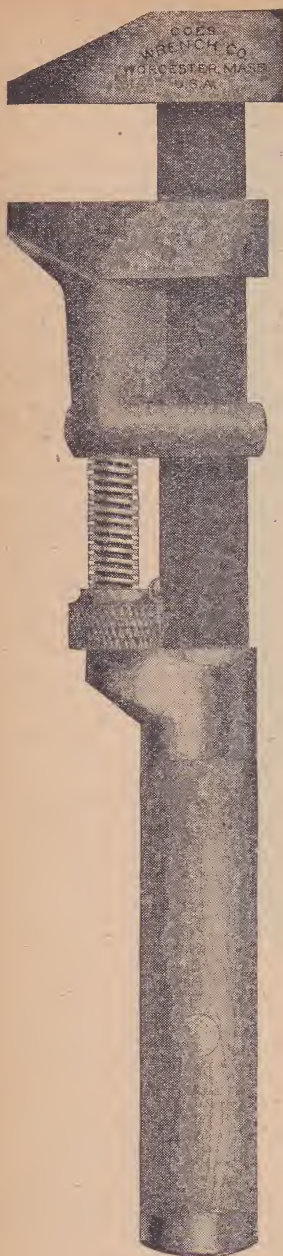


This cut shows the Key Model as compared to a six foot man.

Mr. Coes is holding a 48-inch and a 36-inch wrench.

The 28" is the smallest wrench made in this model and unless otherwise ordered is packed two in a case.

The 36" size is the one used by the coal and iron roads in the United States for regular service.



TRADE MARK
COES
 REG. U.S. PAT. OFF.

"GENUINE"

TRADE
HAMMER HANDLE MODEL
 MARK

This wrench is a wood handle wrench, the parts of which are the same as our Steel ★⁹¹ Handle model with the exception of the handle. It is a close second in strength to the steel handle model showing over 25 per cent. stronger in tests than any other goods marketed with wood handles, 15 per cent. more strength than our "Knife-Handle" wrench and only 5 per cent. less than the Steel ★⁹¹ Handle model.

Made especially for those whose rooted objection to a metal handle makes a wood handle imperative.

Owing to the form of the handle, it is possible to hold a larger wrench comfortably with one hand than is possible with the swelled handle heretofore used.

Handle specifications identical with K. H. Model.

Bar, jaw, etc., identical with the ★⁹¹ model.

Ball bearing in sizes 12 inches and up.

Packages bear a blue, gold and white label, with words "Hammer Handle" in white.

Warranted free from mechanical defects and both wrench and trade name registered and each wrench stamped with maker's name, etc.

Ready in 4 sizes only, 12"-15"-18" and 21".

CASE SIZES AND WEIGHTS

Wrench Sizes	Contents	Outside Diam. of Cases	Knife Hdl.		Steel Hdl.		Hammer Hdl.	
			Net	Gross	Net	Gross	Net	Gross
6 in.	6 Doz.	18 $\frac{1}{4}$ " x 8 $\frac{3}{4}$ " x 6 $\frac{1}{2}$ "	54	60				
	3 "	18 $\frac{1}{4}$ " x 8 $\frac{1}{4}$ " x 4 "	27	31 $\frac{1}{2}$				
	6 "	17 $\frac{1}{4}$ " x 8 $\frac{5}{8}$ " x 6 "			54	60	54	60
	3 "	17 $\frac{1}{2}$ " x 8 $\frac{3}{4}$ " x 3 $\frac{7}{8}$ "			27	32	27	32
8 in.	6 "	21 $\frac{1}{4}$ " x 10 $\frac{1}{4}$ " x 7 $\frac{1}{2}$ "	96	105				
	3 "	21 $\frac{3}{8}$ " x 10 " x 4 $\frac{5}{8}$ "	48	54				
	6 "	21 " x 10 $\frac{1}{4}$ " x 6 $\frac{1}{2}$ "			102	106	102	106
	3 "	20 $\frac{3}{4}$ " x 10 $\frac{1}{4}$ " x 4 "			51	57	51	57
10 in.	6 "	27 " x 12 $\frac{1}{8}$ " x 8 $\frac{1}{4}$ "	153	170				
	3 "	25 $\frac{1}{8}$ " x 12 $\frac{1}{8}$ " x 5 "	76 $\frac{1}{2}$	90				
	6 "	26 " x 12 $\frac{1}{4}$ " x 7 $\frac{1}{4}$ "			156	170	156	170
	3 "	24 $\frac{1}{4}$ " x 12 " x 4 $\frac{3}{4}$ "			78	86	78	86
12 in.	6 "	30 $\frac{3}{4}$ " x 14 $\frac{1}{4}$ " x 8 $\frac{3}{4}$ "	240 $\frac{1}{2}$	265				
	4 "	21 $\frac{1}{2}$ " x 14 $\frac{1}{4}$ " x 8 $\frac{3}{4}$ "	161	175				
	3 "	15 $\frac{1}{4}$ " x 14 $\frac{1}{4}$ " x 8 $\frac{7}{8}$ "	120 $\frac{1}{2}$	132				
	2 "	17 $\frac{3}{4}$ " x 14 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ "	80 $\frac{1}{2}$	92				
	6 "	29 $\frac{3}{8}$ " x 14 $\frac{1}{2}$ " x 8 $\frac{1}{4}$ "			258	282	258	282
	4 "	19 " x 14 $\frac{1}{2}$ " x 8 "			172	184	172	184
	3 "	14 $\frac{5}{8}$ " x 14 $\frac{3}{4}$ " x 8 "			129	139	129	139
15 in.	3 "	19 $\frac{1}{4}$ " x 16 $\frac{3}{4}$ " x 9 $\frac{3}{4}$ "	159	182				
	2 "	17 " x 11 " x 9 $\frac{3}{4}$ "	106	124				
	1 $\frac{1}{2}$ "	17 " x 14 $\frac{1}{8}$ " x 6 $\frac{3}{4}$ "	79 $\frac{1}{2}$	93				
	3 "	19 $\frac{1}{8}$ " x 16 $\frac{3}{8}$ " x 9 $\frac{1}{8}$ "			186	200	186	200
	2 "	17 $\frac{1}{8}$ " x 11 $\frac{7}{8}$ " x 9 $\frac{1}{2}$ "			124	133	124	133
	1 $\frac{1}{2}$ "	17 $\frac{3}{8}$ " x 13 $\frac{1}{2}$ " x 6 $\frac{7}{8}$ "			93	101	93	101
18 in.	2 "	21 $\frac{3}{4}$ " x 12 $\frac{5}{8}$ " x 10 $\frac{1}{8}$ "	160	172				
	1 "	20 " x 10 $\frac{1}{4}$ " x 7 "	80	86				
	2 "	22 " x 12 $\frac{1}{2}$ " x 9 $\frac{3}{4}$ "			178	194	178	194
	1 "	20 $\frac{1}{4}$ " x 9 $\frac{3}{4}$ " x 7 "			89	98	89	98
21 in.	1 "	23 " x 10 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ "	105	117				
	$\frac{1}{2}$ "	23 $\frac{1}{4}$ " x 7 $\frac{1}{2}$ " x 6 $\frac{3}{4}$ "	52 $\frac{1}{2}$	58				
	1 "	23 $\frac{1}{4}$ " x 10 $\frac{1}{4}$ " x 7 $\frac{3}{4}$ "			121	130	121	130
	$\frac{1}{2}$ "	23 $\frac{1}{4}$ " x 7 $\frac{1}{2}$ " x 6 $\frac{3}{4}$ "			60 $\frac{1}{2}$	70	60 $\frac{1}{2}$	70
28 in.	1 only	33 $\frac{1}{2}$ " x 7 " x 3 $\frac{1}{4}$ "			15	25		
	2 only	37 " x 7 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ "			30	41		
	4 only	37 " x 7 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "			60	73		
36 in.	1 only	40 " x 7 $\frac{3}{4}$ " x 3 $\frac{1}{2}$ "			25	35		
	2 only	44 $\frac{1}{2}$ " x 8 $\frac{7}{8}$ " x 3 $\frac{1}{2}$ "			50	64		
	4 only	44 $\frac{1}{4}$ " x 8 $\frac{7}{8}$ " x 5 $\frac{1}{2}$ "			100	112		
48 in.	1 only	53 $\frac{3}{4}$ " x 9 $\frac{7}{8}$ " x 4 $\frac{1}{8}$ "			62	81		
	2 only	57 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ " x 4 $\frac{1}{4}$ "			124	135		

